

**To:** Peter Butler[Personal Email/Ex. 6]  
**Cc:** Wall, Dan[wall.dan@epa.gov]; Brent Lewis[b1lewis@blm.gov]; Bill Simon[Personal Email/Ex. 6]; Steve Fearn[fearneng@rmi.net]; sanjuancounty@frontier.net[sanjuancounty@frontier.net]; Schmittziel, Paula[Schmittziel.Paula@epa.gov]; Fagen, Elizabeth[Fagen.Elizabeth@epa.gov]; Larry Perino[larry.perino@kinross.com]  
**From:** Richardson, Lisa  
**Sent:** Mon 3/23/2015 4:37:30 PM  
**Subject:** Re: easy idea for H2O quality improvement

Thanks for the email, Peter. I think I will contact Willy to see if I can take him for a quick visit while it's still very easy to see.

The white stripe in the Animas begins about 20' below the pipe bridge. I believe I remember that the county installed this culvert just a few years ago when they were getting a lot of snowmelt/precip erosion on the road stretching from Cty. Rd. 2 to the Arrastra bridge.

On Sun, Mar 22, 2015 at 6:32 PM, Peter Butler <Personal Email/Ex. 6> wrote:

Lisa – A seep at 4353 had zinc concentrations of 128,000 ug/l which is very high. But the description is a seep at river level, and we don't know if it adds a lot of zinc load.

There is a seep at 4300 which is upstream from the pipe bridge, but it only has 800 ug/l zinc. Maybe the pipe bridge will give an indication as to where you were.

Another seep at 4385 has moss and aluminum precip, so that might be the one you are looking at with the white. Unfortunately, there is no metal data. Sulfate is fairly high at that spot. The USGS report never mentions the culvert.

Peter Butler

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**From:** Richardson, Lisa [mailto:[lrichard@blm.gov](mailto:lrichard@blm.gov)]  
**Sent:** Thursday, March 19, 2015 5:16 PM  
**To:** Wall, Dan; Brent Lewis; Peter Butler; Bill Simon; Steve Fearn; [sanjuancounty@frontier.net](mailto:sanjuancounty@frontier.net); Schmittiel, Paula; Fagen, Elizabeth; Larry Perino  
**Subject:** easy idea for H2O quality improvement

Good afternoon, All.

While I was out grabbing samples today, I noticed the recent seasonal change at the spot below the Mayflower that always looks suspect. There is always a white stripe along this stretch, even during drought, but it is especially dramatic today. On the Kimball map, this spot is between 4250-4300. I also think I remember Peter saying this is the spot with the highest zinc hit in the watershed, however I don't remember what the number was. Am I correct, Peter? I've attached the Kimball site map.

This afternoon, the melt coming from above the road was streaming into the culvert and then straight onto/into the waste area of this old millsite. It looked like an easy place to make a difference this time of year by diverting this snowmelt elsewhere. I've included Willy Tookey on this email since perhaps this would be an easy road maintenance alteration.

I'll send along some photos next.

Thank you.

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*Lisa Richardson*

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